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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/731,596

Filed: December 9, 2003

Inventor(s):

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Hartman, Celso Axelrud, and  
Kadir Liano

Title: SYSTEM AND METHOD  
OF APPLYING  
ADAPTIVE CONTROL  
TO THE CONTROL OF  
PARTICLE  
ACCELERATORS WITH  
VARYING DYNAMICS  
BEHAVIORAL  
CHARACTERISTICS  
USING A NONLINEAR  
MODEL PREDICTIVE  
CONTROL  
TECHNOLOGY

§ Examiner: Unknown  
§ Group/Art Unit: 2879  
§ Atty. Dkt. No: 5650-03600

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Alexandria, VA 22313-1450, on the date indicated below.

 Jeffrey C. Hood  
Signature 01/3/2006 Date

## PRELIMINARY AMENDMENT

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This paper is submitted as a Preliminary Amendment to the above-captioned case.

Please amend the case as listed below.